Life Prediction Branch (RSL)

Develops computational and experimental technology to assure integrity, durability, and reliability of aerospace propulsion and power system components made of high temperature metallic, ceramic and fiber reinforced composite materials. Conducts research in physics-based deformation and life prediction models and validate computer codes via mechanical and benchmark experiments. Investigates fatigue, fracture and creep rupture in high value added structures. Develops novel diagnostic and prognosis methods for high precision health monitoring in aerospace systems.